

**VESSEL SEALING SYSTEM****ABSTRACT OF THE DISCLOSURE**

5 A method for electrosurgically sealing a tissue includes steps of: (A) applying a first pulse of RF energy to the tissue; and (B) applying at least one subsequent RF energy pulse to the tissue and varying RF energy parameters of individual pulses of subsequent RF energy pulses in accordance with at least one characteristic of an electrical transient that occurs during the individual pulses of the subsequent RF energy pulses. The method terminates the generation of subsequent RF pulses  
10 upon a determination that the electrical transient has passed a predetermined limit.